

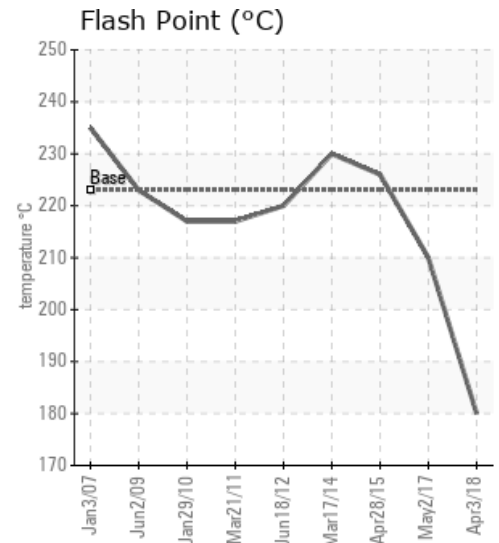
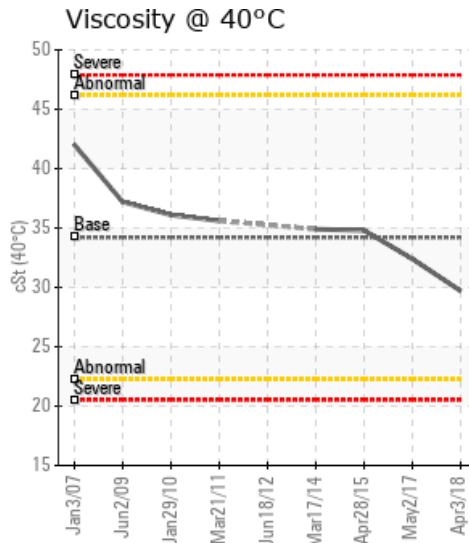
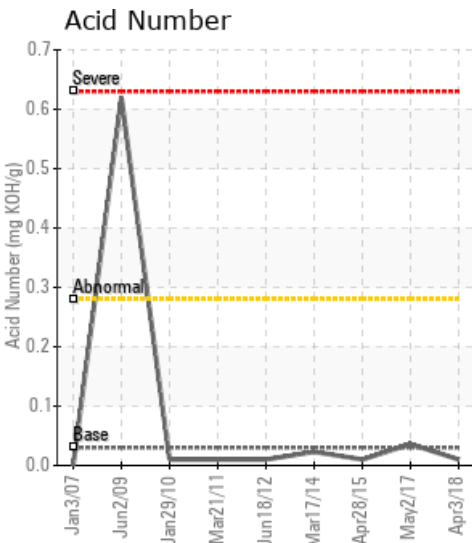
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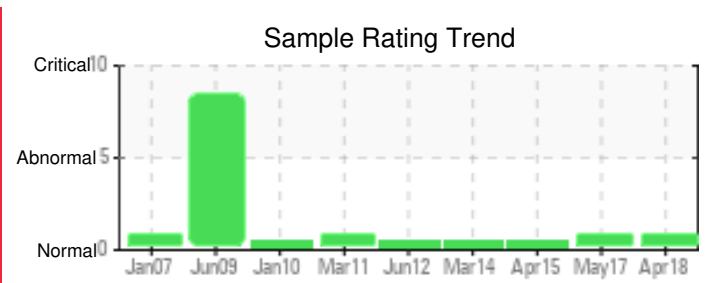
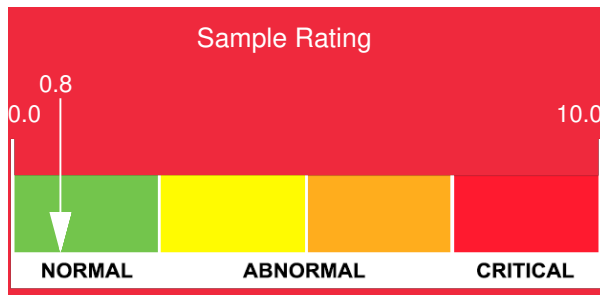
Customer: PTRHTF30038	System Information	Sample Information
BUILDING PRODUCTS OF CANADA 9510 ST PATRICK STREET LASALLE, QC H8R 1R9 CANADA Attn: Samuel Denault Tel: (514)364-7550 E-Mail: SDENAULT@BPCAN.COM	System Volume: 405 ltr Bulk Operating Temp: 227F / 108C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: CHROMALOX	Lab No: 02214056 Analyst: Pierre Castagne Sample Date: 04/03/18 Received Date: 05/03/18 Completed: 05/07/18 To discuss this report contact Pierre Castagne at 450-981-0693

Recommendation: Le point éclair est marginalement faible, reprendre un échantillon dans 3 mois.

Comments: COC Flash Point is marginally low.

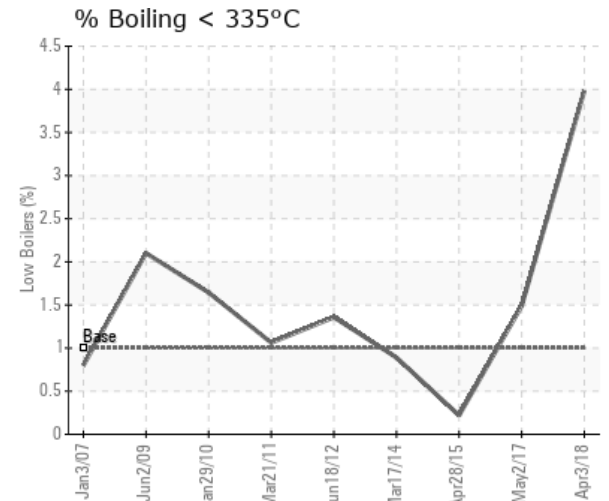
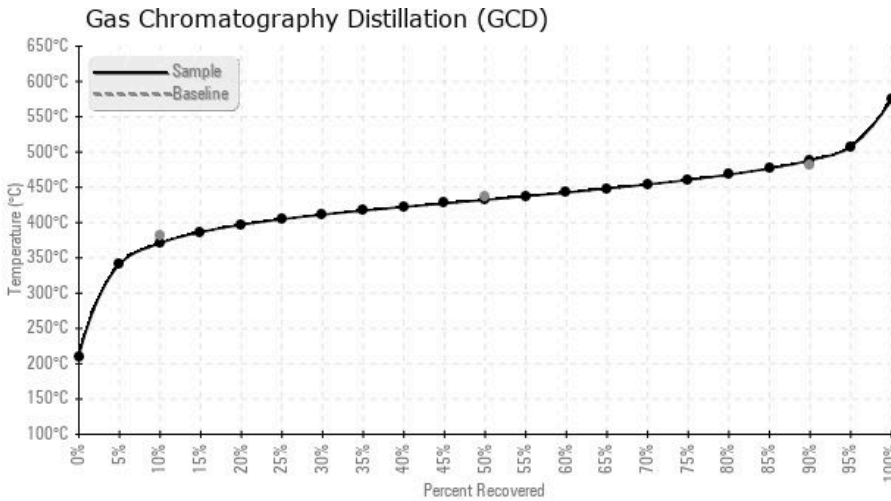
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
04/03/18	05/03/18	0y		356 / 180	8.9	29.7	0.01	0.043	699 / 371	810 / 432	911 / 488	3.98
05/02/17	05/12/17	0y	LIGNE DE PRESSION	410 / 210	12.1	32.4	0.036	0.026	712 / 378	811 / 433	924 / 496	1.49
04/28/15	05/01/15	1y	VLV SUR TUYAN ENTR P	439 / 226	9.6	34.8	0.01	0.033	721 / 383	815 / 435	926 / 497	0.22
03/17/14	03/21/14	1y		446 / 230	13.5	34.9	0.023	0.144	721 / 383	816 / 436	915 / 491	0.89
06/18/12	07/12/12			428 / 220	207		0.01		708 / 376	800 / 427	895 / 480	1.358
03/21/11	04/04/11		PRESSURE LINE	423 / 217	8	35.6	0.01	0.025	717 / 381	809 / 431	907 / 486	1.062
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00





Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc		
04/03/18	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
05/02/17	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/28/15	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03/17/14	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/18/12	1	0	0	0	0	0	0	0	0	0	3	1	1	0	0	0	0	0	0	0	0	0	1	64	60	
03/21/11	0	0	0	0	0	0	0	2	0	0	1	0	2	0	0	0	0	0	0	0	2	0	1	0	0	
Baseline Data			0	0						0			0	0					0				0			

Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



Historical Comments	
05/02/17	On note une légère augmentation des Fractions Lourdes (GCD @90%), une augmentation des Fractions Lourdes engendre une augmentation de la viscosité et favorise la formation de dépôt de carbone. (GCD) 90% Distillation Point is marginally high.
04/28/15	Les fractions lourdes sont légèrement élevé (GCD 90%) (GCD) 90% Distillation Point is marginally high.
03/17/14	Les propriétés de l'huile semblent normales. SVP continuez à échantillonner les systèmes régulièrement
06/18/12	L'huile semble normale, malgré qu'on observe l'étrange présence de zinc et phosphore qui ne sont pas des additifs du Petro-Therm. Ces éléments sont présents dans les huiles moteurs, huiles hydrauliques. Nous ne recommandons pas de remplacer 400L d'huile due à la présence de ces éléments mais nous garderons un œil ouvert lorsque les résultats du prochain échantillon seront disponibles.
03/21/11	

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